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TITLE: Hair growth promoters containing 3-substituted cyclosporin derivatives

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AB A hair growth stimulant contg. 3-substituted cyclosporin derivs. is provided which can be effectively used for the promotion of hair growth. Thus, 1.0 g cyclosporin A dissolved in 50 mL THF was added to 10 equiv LDA solution, agitated at -78°, mixed with Et iodide and then concentrated. The residue was extracted with ether, washed with saturated sodium chloride water and dried to produce a cyclosporin A derivative. The agent is formulated into a liquid, spray, gel, paste, ointment, cream, conditioner or shampoo.

IT 59865-13-3DP, Cyclosporin, derivs.RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

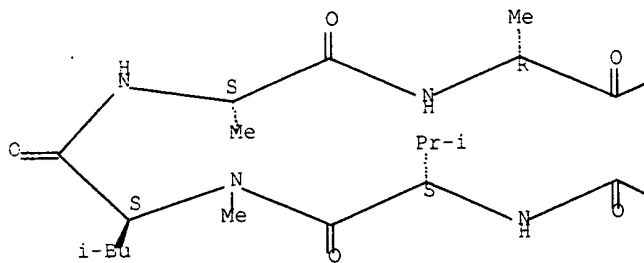
(hair growth promoters containing substituted cyclosporin derivs.)

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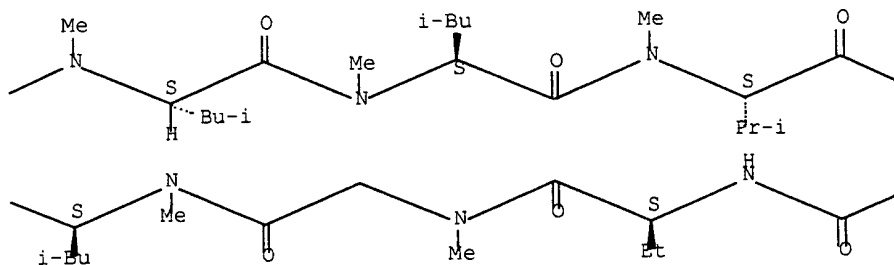
CN Cyclosporin A (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



PAGE 1-C

